

GS3A-B THRU GS3M-B

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE: 50 TO 1000V

CURRENT: 3.0A

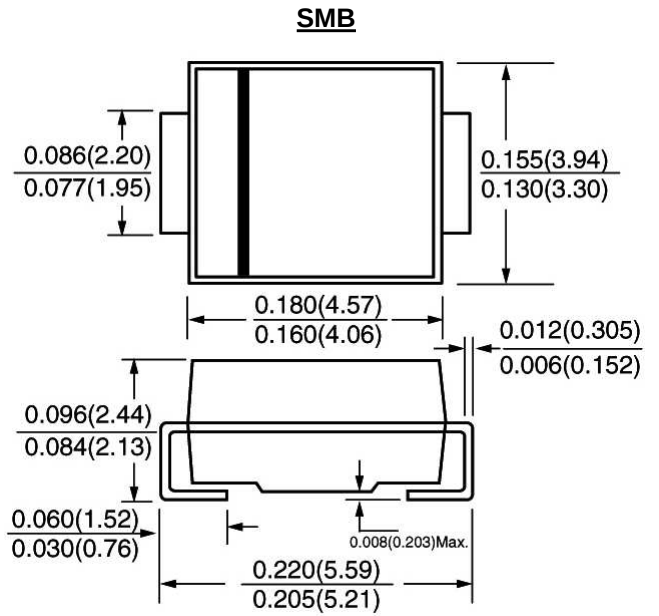


FEATURE

Ideal for surface mount pick and place application
Low profile package
Built-in strain relief
High surge capability
High temperature soldering guaranteed
260°C/10sec/at terminals

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 class V-0 recognized Flame
Retardant Epoxy
Polarity: color band denotes cathode



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	SYMBOL	GS 3A-B	GS 3B-B	GS 3D-B	GS 3G-B	GS 3J-B	GS 3K-B	GS 3M-B	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 " lead length at T _L =103°C	I _{f(av)}	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	100.0							A
Maximum Forward Voltage at rated Forward current	V _f	1.1							V
Rating for fusing (t <10ms) T _j =25°C	I ² t	40							A ² sec
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	5.0 250.0							μ A
Typical Junction Capacitance (Note 1)	C _j	60.0							pF
Typical Thermal Resistance (Note 2)	R _{th(jl)}	13.0							°C/W
Storage and Operating Temperature Range	T _{stg}	-55 to +150							°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

Fig. 1 - Forward Current Derating Curve

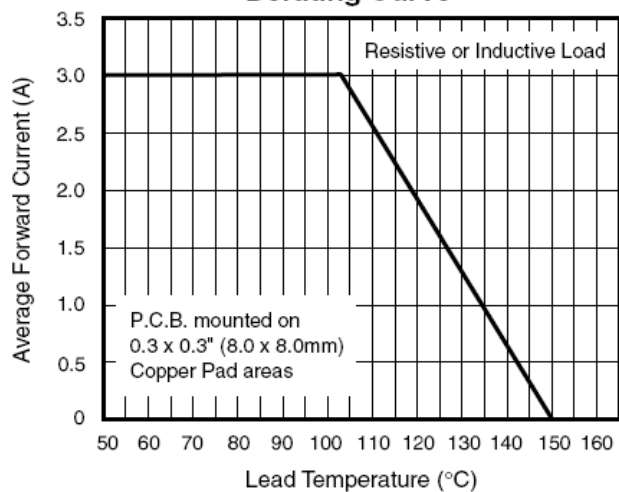


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

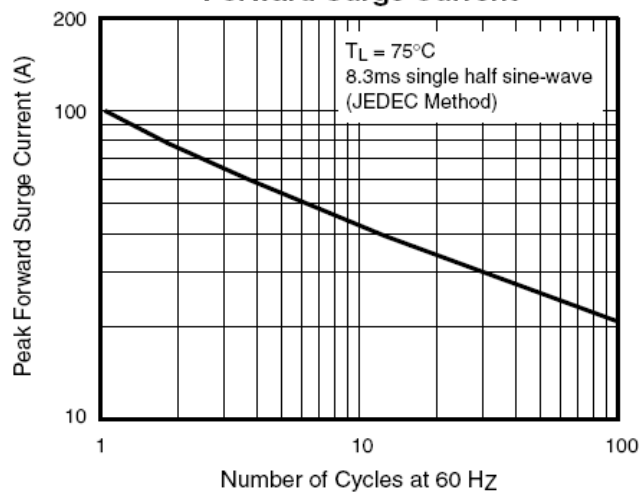


Fig. 3 - Typical Instantaneous Forward Characteristics

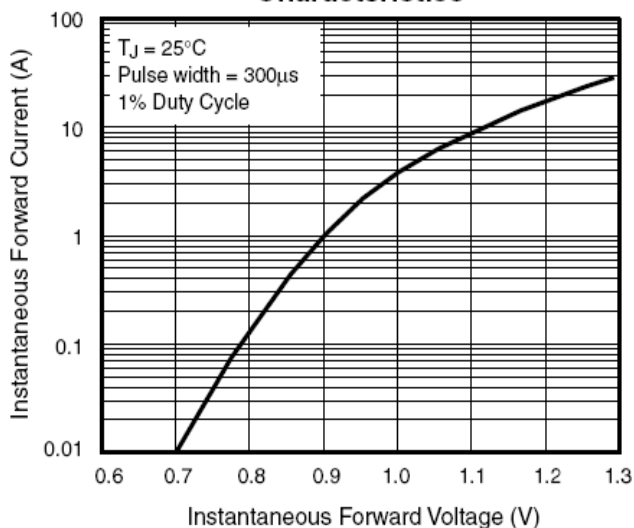


Fig. 4 - Typical Reverse Characteristics

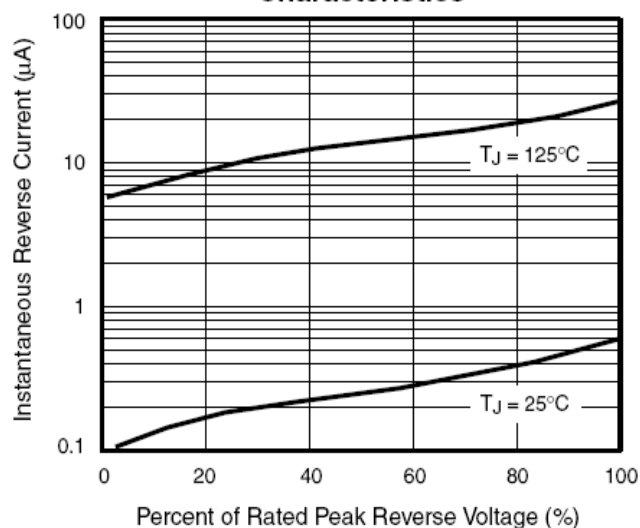


Fig. 5 - Typical Junction Capacitance

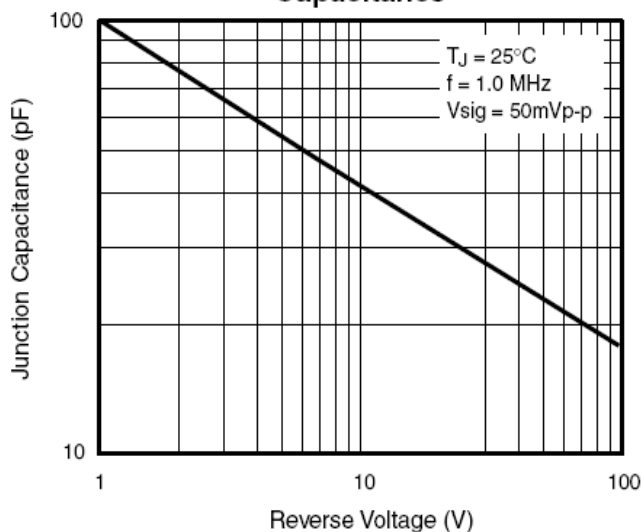


Fig. 6 - Typical Transient Thermal Impedance

